## **CLAIMS**

I claim:

1	1. A method for controlling fans comprising:
2	arranging a combination of thermal sensors;
3	coupling the combination of thermal sensors to a thermal data channel of a
4	controller; and
5	controlling cooling devices in accordance with the thermal data channel.
1	2. The method of claim 1, wherein arranging comprises placing the
2	thermal sensors in proximity to electrical devices.
1	3. The method of claim 2, wherein the electrical devices are processors.
1	4. The method of claim 1, wherein the thermal sensors are coupled in
2	parallel.
1	5. The method of claim 4, wherein the thermal sensors are constructed to
2	respond uniformly to changes in temperature.
1	6. The method of claim 1, wherein the thermal sensors are diodes.
1	7. The method of claim 1, wherein the thermal sensors are transistors.
1	8. The method of claim 1, further comprising installing the controller and
2	the combination of thermal sensors in an electronic enclosure.
1	9. An electronic assembly comprising:
2	means for housing a plurality of active integrated circuit devices; and
3	means for controlling cooling devices proximal to select integrated circuit
4	devices, wherein said means for controlling cooling devices is coupled to a
5	combination of a first thermal sensing means and a second thermal sensing means.

- 1 10. The electronic assembly of claim 9, wherein said means for controlling cooling devices uses a single thermal data channel to sense thermal information 2 3 provided by the first and second thermal sensing means. 11. 1 The electronic assembly of claim 9, wherein said means for controlling 2 cooling devices drives a first cooling device located proximal to a first processor and a second cooling device located proximal to a second processor. 3 1 12. The electronic assembly of claim 11, wherein said means for controlling cooling devices drives the first and second fans in response to the warmest 2 3 of the first processor and the second processor. 13. The electronic assembly of claim 9, wherein the combination of the 1 2 first thermal sensing means and the second thermal sensing means is arranged in 3 parallel. An apparatus comprising: 14. 1 2 a first device fan located proximal to a first select electrical device; a second device fan located proximal to a second select electrical device; 3 4 a combination of a first thermal sensor and a second thermal sensor, wherein the first thermal sensor is located proximal to the first select electrical device and the 5 second thermal sensor is located proximal to the second select electrical device; and 6 7. a fan controller having a first thermal data channel coupled to the combination of the first and second thermal sensors. 8 15. The apparatus of claim 14, wherein the fan controller senses the 1 warmer of the first select electrical device and the second select electrical device and 2 drives both the first device fan and the second device fan in accordance with a 3 4 thermal operating profile for the first and second select electrical devices.
  - 16. The apparatus of claim 15, wherein the first select electrical device and the second select electrical device comprise integrated circuits.

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1 17. The apparatus of claim 14, wherein the first and second thermal 2 sensors respond uniformly to changes in temperature. 18. l The apparatus of claim 14, wherein the first and second thermal sensors are diodes. 2 The apparatus of claim 14, wherein the first and second thermal 19. 1 2 sensors are transistors. 20. The apparatus of claim 14, wherein the first device fan and the second 1 2 device fan are substantially similar. 21. The apparatus of claim 14, further comprising: 1 an enclosure having an enclosure fan and a third thermal sensor coupled to a 2 second thermal data channel of the fan controller. 3 22. The apparatus of claim 21, wherein the fan controller senses 1 temperature using the third thermal sensor and the second thermal data channel and 2 drives the enclosure fan in accordance with a thermal operating profile for the 3 enclosure. 4